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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/573,615	03/06/2007	Walter Dennis Robertson III	35015/044US	9787	
26263 7599 64402299 SONNENSCHEIN NATH & ROSENTHAL LLP P.O. BOX 061080 WACKER DRIVE STATION, SEARS TOWER CHICAGO, IL, 60606-1080			EXAM	EXAMINER	
			HOGAN, JA	HOGAN, JAMES SEAN	
			ART UNIT	PAPER NUMBER	
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			04/10/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/573.615 ROBERTSON III ET AL Office Action Summary Examiner Art Unit JAMES S. HOGAN 3752 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 25 February 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 11.13-17.19 and 20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 11,13-17,19 and 20 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date _

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/S6/08)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 11, 13-17, 19 and 20 have been considered but are moot in view of the new ground(s) of rejection. The Examiner wishes to extend a full apologies as the subject matter of former claims 12 and 18 has bee prematurely indicated as possibly allowable subject matter. Art of record, notably, U.S. Patent 3,740,019 to Kessell et al appears to reead upon the incorporated subject matter of claims 11 and 17 as a plausible modifier to Nickerson et al and Nicklerson et al in view of Neilson

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 11, 13, 17, 19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,151,178 to Nickerson et al in view of U.S. Patent No. 3,740,019 to Kessell et al.
- 3. As per claims 11 and 17, Nickerson et al discloses (see Figure 3) an orifice member (212) defining a first surface, the orifice member having an inlet (at (214)) and an outlet (at (212)), a plunger (combined, (200) and (206)), a pole (30) and coil (28) which energized to move the plunger, the plunger being movable relative to the orifice member; a first guide spring (202) situated between the orifice member and the plunger.

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and having a portion attached to a first end of the plunger, the first guide spring defining a second surface, the second surface being sealable against the first surface to prevent fluid flow between the inlet and the outlet. Nickerson et al does not teach the plunger and spring attached to one another, and although it is taught away from such an attachment, the attachment of two items is obvious to one having ordinary skill in the art at the time the invention was made, since it has been held that forming in once piece an article which has formerly been formed in two pieces and put together involves only routine skill in the art. See Howard v. Detroit Stove Works, 150 U.S. 164 (1893). Further, Nickerson does not teach the fist and second sealing surfaced being co-planer when the plunger is in its closed position. However, Kessell et al discloses a valve of the same type as Nickerson et al. featuring a plunger (50, 47) and guide spring (36) arrangement (See Figures 1 and 2) where the second sealing surface (underside of spring (36) and the first sealing surface (at (68)) are substantially co-planar when the valve is in its closed position. Therefore, it would have been obvious to one having ordinary skill in the art to have provided the device of Nickerson et al with a sealing arrangement as suggested by Kessell et al. Doing so would provide a sealing surface where the spring is "at rest" in the closed position, and because (a) the Nickerson et al reference and the Kessell et al reference are known work in one of field of endeavor, (b) such modification is merely the use of known technique to improve a similar device by Applicant, and (c) such modification, i.e. choosing from a finite number of predictable solutions, is not of innovation but of ordinary skill and common sense. KSR, International Co. v. Teleflex Inc., 550 U.S. (2007).

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- As per claim 13 and 19, the plunger is moved to the open position when the coil in energized.
- As per claim 20, the guide spring of Nickerson urges the plunger in the closed position.
- 6. Claims, and 14-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,151,178 to Nickerson et al in view of U.S. Patent No. 3,740,019 to Kessell et al and further in view of U.S. Patent No. 4,635,683 to Neilson.
- 7. The rejection of claims 11 above serve as the basis for the following.

As per claims, 14-16, neither Nickerson et al nor Kessell et al teach a second guide spring attached to the second end (aka, proximal end) of the plunger. Neilson teaches a solenoid valve having a plunger (16) having flat guide springs ((36) and (32)) on both ends of the plunger, the second spring biasing a plunger into the closed position, and an elastomeric insert (14) in an opening defined by the plunger (16). Therefore, it would have been obvious to one having ordinary skill in the art to have provided the device of Nickerson et al with a flat guide springs on the second end of the plunger as suggested by Neilson. Doing so would provide additional valve member responsiveness and because (a) the Nickerson et al reference and the Neilson reference are known work in one of field of endeavor, (b) such modification is merely the use of known technique to improve a similar device by Applicant and (c) such modification, i.e. choosing from a finite number of predictable solutions, is not of innovation but of ordinary skill and common sense. KSR, International Co. v. Teleflex Inc., 550 U.S. (2007).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES S. HOGAN whose telephone number is (571)272-4902. The examiner can normally be reached on Mon-Fri, 6:00a-3:00p EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Len Tran can be reached on (571)272-1184. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. S. H./ Examiner, Art Unit 3752 /Len Tran/ Supervisory Patent Examiner, Art Unit 3752